PHASE I

CONSTRUCTION DETAILS

A. INSTALL BASE-MOUNTED CABINET/CONTROLLER WITH ALL NECESSARY EQUIPMENT FOR AN UNDERGROUND ELECTRICAL SERVICE. (NOTE: TWO 4 IN., 90-DEGREEE (SCH. 40) PVC BENDS, ONE 3 IN., 90-DEGREE (SCH. 40) PVC BEND AND ONE 2 IN., 90-DEGREE (SHC. 80) PVC BEND)

B. INSTALL 27' STEEL MAST ARM POLE WITH A SINGLE 50' MAST ARM, VEHICLE SIGNAL HEADS, SIGNS AND A 10' LIGHTING ARM WITH A 250-WATT HPS LAMP AND LUMINAIRE AS SHOWN. (NOTE: ONE 2 IN., 90-DEGREE (SCH. 40) PVC BEND) [USE FOUR 2 IN. X 90 IN. ANCHOR BOLTS]

C. INSTALL 27' STEEL MAST ARM POLE WITH A SINGLE 70' MAST ARM, VEHICLE SIGNAL HEADS, SIGNS AND A 10' LIGHTING ARM WITH A 250-WATT HPS LAMP AND LUMINAIRE AS SHOWN. (NOTE: ONE 2 IN., 90-DEGREE (SCH. 40) PVC BEND) [USE FOUR 2 IN. X 90 IN. ANCHOR BOLTS]

D. INSTALL HANDHOLE

E. INSTALL 1 IN. ELECTRICAL CONDUIT - GALVANIZED STEEL.

F. INSTALL 2 IN. POLYVINYL CHLORIDE (SCH. 40) ELECTRCIAL CONDUIT - TRENCHED.

G. INSTALL 3 IN. POLYVINYL CHLORIDE (SCH. 40) ELECTRICAL CONDUT - TRENCHED.

H. INSTALL 4 IN. POLYVINYL CHLORIDE (SCH. 40) ELECTRICAL CONDUIT - TRENCHED.

J. INSTALL 3 IN. POLYVINYL CHLORIDE (SCH. 80) ELECTRICAL CONDUIT - BORED.

K. INSTALL 4 IN. POLYVINYL CHLORIDE (SCH. 80) ELECTRICAL CONDUIT - BORED

L. INSTALL 4 IN. POLYVINYL CHLORIDE (SCH. 80) ELECTRICAL CONDUIT - SLOTTED.

M. MAINTAIN EXISTING POLE AND CABINET FOR THE SIGNAL INTERCONNECT.

N. INSTALL 6 FT. X 30 FT. QUADRUPOLE-TYPE VEHICLE LOOP DETECTOR (3-6-3 TURNS) ENCASED IN FLEXIBLE TUBING.

O. INSTALL MICRO-LOOP PROBE-TYPE DETECTOR.

P. USE EXISTING HANDHOLE.

Q. USE EXISTING CONDUIT.

R. INSTALL 3 IN. POLYVINYL CHLORIDE (SCH. 80) ELECTRICAL CONDUT - TRENCHED.

S. USE EXISTING HANDHOLE. SPLICE NEW 2-CONDUCTOR ALUMINUM-SHIELDED CABLE TO THE EXISTING LOOPS AND RE-ROUTE TO THE NEW CABINET/CONTROLLER IN THE NEW CONDUIT.

T. INSTALL 2 IN. POLYVINYL CHLORIDE (SCH. 80) ELECTRICAL CONDUIT - TRENCHED - FOR UNDERGROUND SERVICE.

U. CAP AND ABANDON EXISTING CONDUIT.

V. REMOVE EXISTING HANDHOLE.

W. REMOVE EXISTING STEEL MAST ARM POLE AND ALL ATTACHED EQUIPMENT.

X. MAINTAIN EXISTING VEHICLE DETECTOR.

Y. ABANDON EXISTING VEHICLE DETECTOR.

Z. INSTALL 24 IN. TEMPORARY WHITE PREFORMED PAVEMENT MARKING TAPE.

AA. MAINTAIN EXISTING CONDUIT.

BB. REMOVE EXISTING CABINET AND CONTROLLER.

CC. REMOVE EXISTING UNDERGROUND SERVICE.

DD. USE EXISTING MAST ARM POLE. REWIRE EXISTING TRAFFIC SIGNAL HEADS AND RE-ROUTE TO THE NEW CABINET/CONTROLLER IN THE EXISTING AND NEW CONDUIT RUN.

EE. USE EXISTING MAST HAND POLE. ALSO SEE INTERCONNECT PLAN.

FILE NO. SS15M175.DGN
05-21-97 SPN

ULTIMATE SIGNAL

CONSTRUCTION DETAILS

A. USE EXISTING CABINET AND CONTROLLER.

B. INSTALL HANDHOLE.

C. INSTALL 1 IN. ELECTRICAL CONDUIT - GALVAIZED STEEL.

D. INSTALL 27' STEEL MAST ARM POLE WITH A SINGLE 50' MAST ARM, VEHICLE SIGNAL HEADS, PEDESTRIAN SIGNAL HEAD, PEDESTRIAN PUSHBUTTON, SIGNS AND A 10' LIGHTING ARM WITH A 250-WATT HPS LAMP AND LUMINAIRE AS SHOWN. (NOTE: ONE 2 IN., 90-DEGREE (SCH. 40) PVC BEND) [USE FOUR 2 IN. X 90 IN. ANCHOR BOLTS]

E. INSTALL 2 IN. POLYVINYL CHLORIDE (SCH. 40) ELECTRCIAL CONDUIT - TRENCHED.

F. INSTALL MICRO-LOOP PROBE-TYPE DETECTOR.

G. INSTALL 6 FT. X 30 FT. QUADRUPOLE-TYPE VEHICLE LOOP DETECTOR (3-6-3 TURNS) ENCASED IN FLEXIBLE TUBING.

H. INSTALL 4 IN. POLYVINYL CHLORIDE (SCH. 80) ELECTRICAL CONDUIT - SLOTTED.

J. EXISTING UNDERGROUND SERVICE.

K. USE EXISTING CONDUIT.

L. USE EXISTING HANDHOLE.

M. REMOVE EXISTING HANDHOLE.

N. CAP AND ABANDON EXISTING CONDUIT.

O. REMOVE EXISTING STEEL MAST ARM POLE AND ALL ATTACHED EQUIPMENT.

P. MAINTAIN EXISTING VEHICLE DETECTOR.

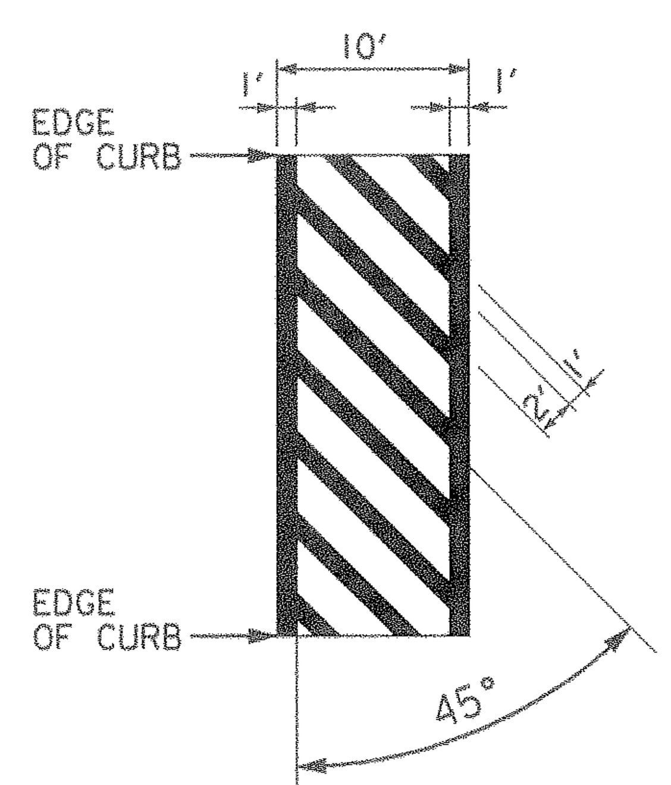
Q. ABANDON EXISTING VEHICLE DETECTOR.

R. INSTALL 24 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE.

S. INSTALL 12 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE. (FOR CROSSWALK, SEE DETAIL THIS SHEET.)

T. INSTALL PEDESTRIAN SIGNAL HEAD, PEDESTRIAN PUSHBUTTON AND SIGN ON THE EXISTING POLE.

U. INSTALL SIGN ON THE EXISTING MAST ARM.



CROSSWALK DETAIL

N.T.S.

THE WILSON T. BALLARD CO.
CONSULTING ENGINEERS
OWINGS MILLS, MARYLAND

REVISIONS
10-25-85 ADDENDUM TO HO-581-501-771 LOCATION OF CONTROLLER CHANGED (C) TO SW QUAD FROM SE ISLAND
(D) 3-97 ADDITION OF EB MD 175 LOOP DETECTOR FOR NEW LEFT TURN LANE AND HANDHOLE RELOCATION
(E) 6-97 - WTB - HO7645170 RECONSTRUCT SIGNAL TO NEW GEOMETRICS
JDM

APPROVALS
ASST. DIVISION CHIEF, TEDD
ASST. DISTRICT ENGINEER, TRAFFIC
CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, OFFICE OF TRAFFIC & SAFETY

MAINTENANCE OF TRAFFIC
PHASE I AND ULTIMATE

2 OF 5

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 175 AND DOBBIN ROAD

LOG MILE NO. 13017504.18 DATE 3 / 16 / 76

DRAWN BY:	J.G. & D. ZAFRIS	F.A.P. NO.	SEE TITLE SHEET	PLAN SHEET NO.:	SHEET NO.
CHECK BY:	N/A	S.H.A. NO.	HO-400-501-785		
SCALE:	1" = 20'	COUNTY	HOWARD	TS-1396E-GI-1	26 OF 46